LED MONITOR 51 SERIES

# LCD Monitor User Manual

## *e*2051F

Slim with **Versatility.** Slim in **Style.**

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# Safety

## National Conventions

The following subsections describe notational conventions used in this document.

**Notes, Cautions, and Warnings**

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:

**NOTE:** A NOTE indicates important information that helps you make better use of your computer system**.**

**CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

**WARNING:** A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

# Power

The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.

The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.

Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.

Do not overload power strips and extension cords. Overloading can result in fire or electric shock.

To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V ~, Min. 5A

The wall socket shall be installed near the equipment and shall be easily accessible.

For use only with the attached power adapter (Output 12Vdc) which have UL,CSA listed license (Only for monitors with power adapter).

Manufacturers:

1) TPV ELECTRONICS(FUJIAN) CO., LTD model : ADPC1236

2) HONOR ELECTRONIC CO., LTD model : ADS-45NP-12-1 12036G

# Installation

Do not place the monitor on an unstable cart, stand, tripod, bracket, or table. If the monitor falls, it can injure a person and cause serious damage to this product. Use only a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with this product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. A product and cart combination should be moved with care.

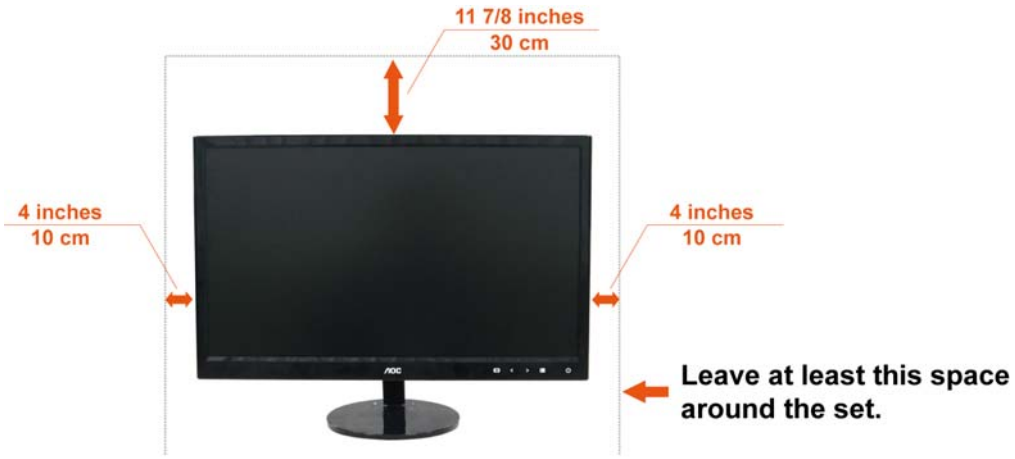
Never push any object into the slot on the monitor cabinet. It could damage circuit parts causing a fire or electric shock. Never spill liquids on the monitor.

Do not place the front of the product on the floor.

Leave some space around the monitor as shown below. Otherwise, air-circulation may be inadequate hence overheating may cause a fire or damage to the monitor.

See below the recommended ventilation areas around the monitor when the monitor is installed on the wall or on the stand:

**Installed with stand**



# Cleaning

Clean the cabinet regularly with cloth.  You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.

When cleaning, make sure no detergent is leaked into the product. The cleaning cloth should not be too rough as it will scratch the screen surface.

Please disconnect the power cord before cleaning the product.

## Other

If the product is emitting a strange smell, sound or smoke, disconnect the power plug IMMEDIATELY and contact a Service Center.

Make sure that the ventilating openings are not blocked by a table or curtain.

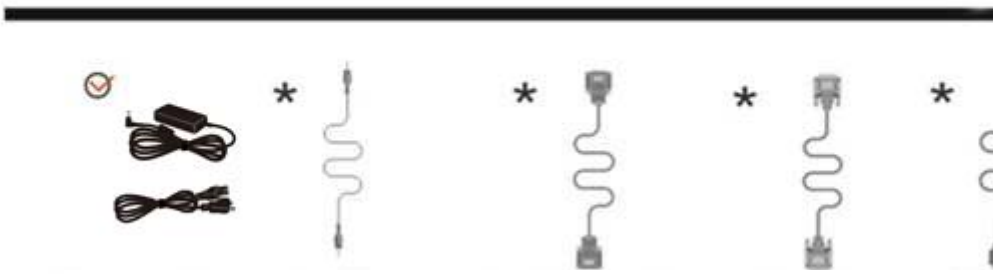
Do not engage the LCD monitor in severe vibration or high impact conditions during operation.

Do not knock or drop the monitor during operation or transportation.

# Setup

## Contents in Box

QSG CD Manual Monitor Base Stand



Power Cable * Audio * Analog Cable * DVI Cable * HDMI

* Not all signal cables (Analog, DVI, and HDMI cables) will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

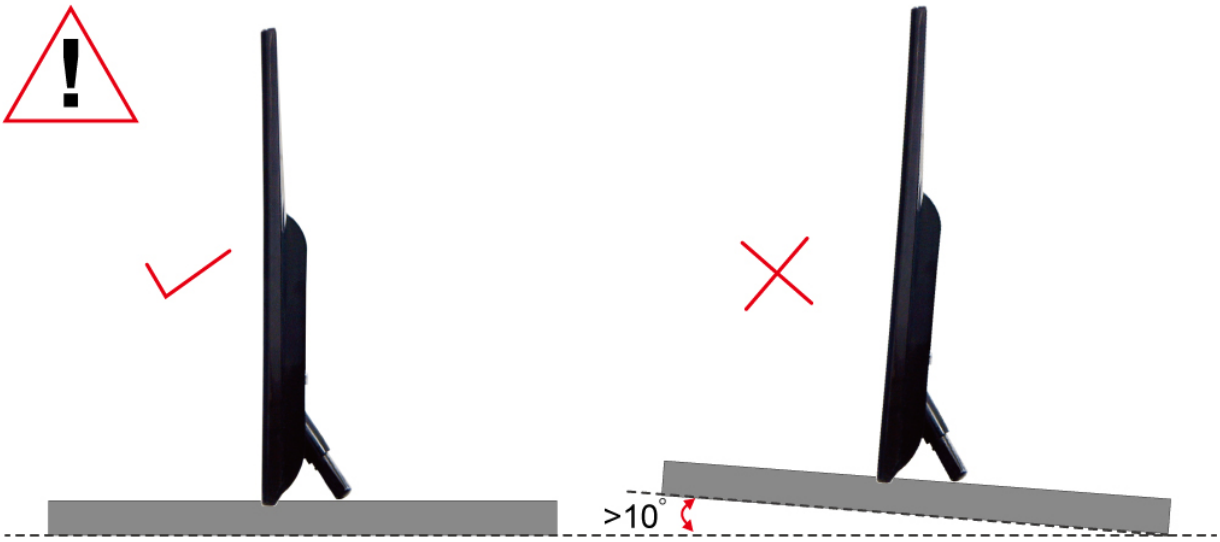
# Setup Stand & Base

Please setup or remove the base following the steps as below.

Setup:

Remove:

Unit standing without base is available. (Caution: must put unit in flat surface. Any uneven or sloped surface may result unit damaged or injury to user.)

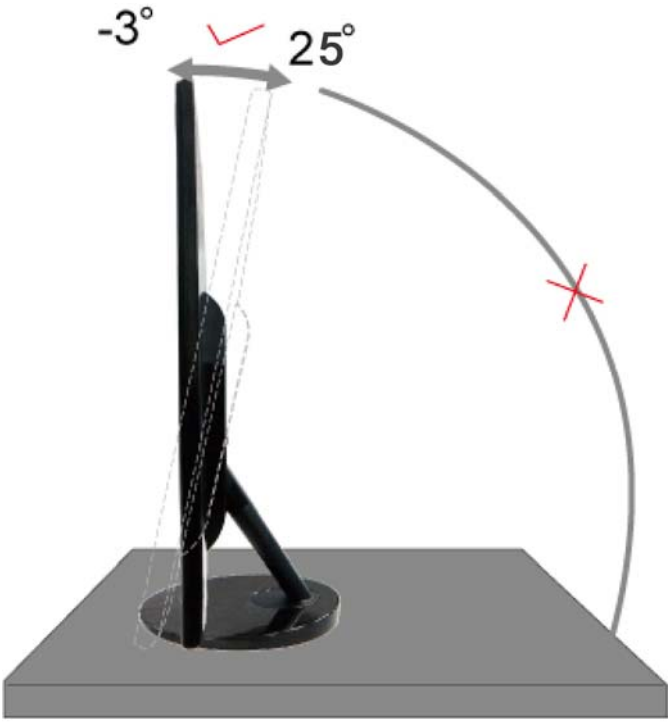


# Adjusting Viewing Angle

For optimal viewing, it is recommended to look at the full face of the monitor, and then adjust the monitor's angle to your own preference.

Hold the stand so you will not topple the monitor when you change the monitor's angle.

You are able to adjust the monitor's angle from -3° to 25 °.




NOTE:

Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.

# Connecting the Monitor

Cable Connections In Back of Monitor and Computer:

1 DVI
2 D-SUB
3 Power

To protect equipment, always turn off the PC and LCD monitor before connecting.

1 Connect the power cable to the AC port on the back of the monitor.
2 Connect one end of the 15-pin D-Sub cable to the back of the monitor and connect the other end to the computer's D-Sub port.
3 （Optional-Requires a video card with DVI port) -Connect one end of the DVI cable to the back of the monitor and connect the other end to the computer’s DVI port.
4 Turn on your monitor and computer.

If your monitor displays an image, installation is complete. If it does not display an image, please refer Troubleshooting.

# Adjusting

## Setting Optimal Resolution

### Windows Vista

**For Windows Vista:**

1 Click **START.**

2 Click **CONTROL PANEL.**

3 Click **Appearance and Personalization.**

4 Click **Personalization**

5 Click **Display Settings.**

6 Set the resolution **SLIDE-BAR** to 1600 by 900.

## Windows XP

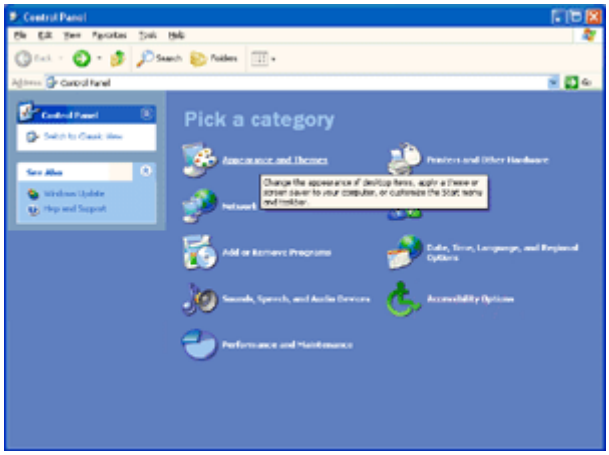
**For Windows XP:**

1 Click **START.**

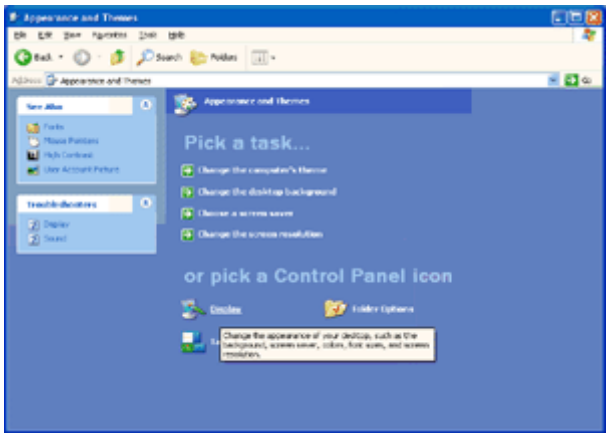
2 Click **SETTINGS.**

3 Click **CONTROL PANEL.**

4 Click **Appearance and Themes.**

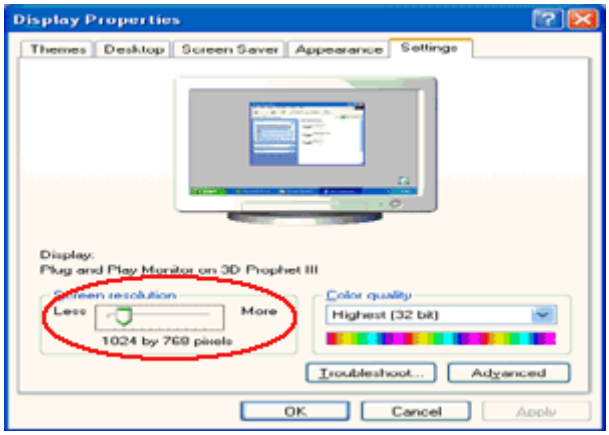



5 Double click **DISPLAY.**



6 Click **SETTINGS.**

7 Set the resolution **SLIDE-BAR** to 1600 by 900.




## Windows ME/2000

**For Windows ME/2000:**

1 Click **START.**

2 Click **SETTINGS.**

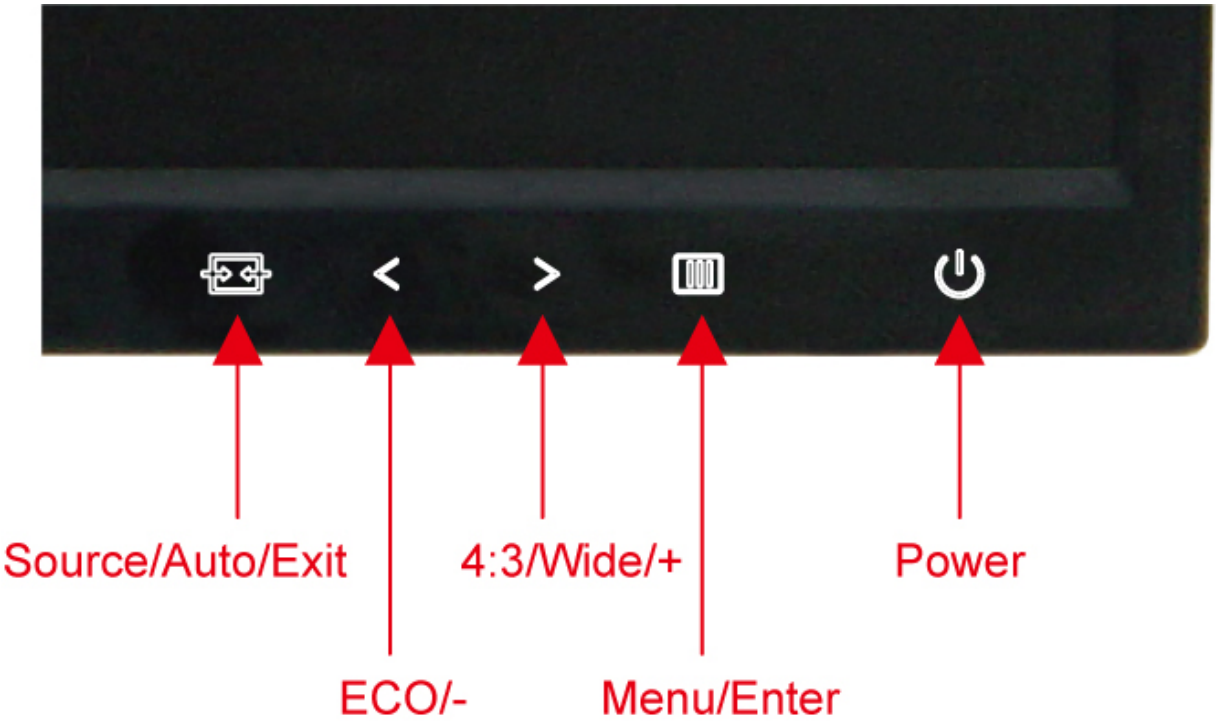
3 Click **CONTROL PANEL.**

4 Double click **DISPLAY.**

5 Click **SETTINGS.**

6 Set the resolution **SLIDE-BAR** to 1600 by 900.

# Hotkeys




**Power**

Press the Power button to turn on/off the monitor.

**Menu/Enter**

Press to display the OSD or confirm the selection.

**< Eco (DCR)/ -**

Press the Eco key continuously to select the Eco mode of brightness and DCR on when there is no OSD. (Eco mode hot key may not be available in all models).

**> 4:3 or Wide/+**

When there is no OSD, press > continuously to change 4:3 or wide image ratio. (If the product screen size is 4:3 or input signal resolution is wide format, the hot key is disabled to adjust.)

**Source/Auto / Exit**

When the OSD is closed, press Auto/Source/Exit button continuously about 2 second to do auto configure (only for the models with dual or more inputs).

When the OSD is closed, press Auto/Source/Exit button will be Source hot key function (Only for the models with dual or more inputs).

# OSD Setting

**Basic and simple instruction on the control keys.**

1. Press the **MENU-button** to activate the OSD window.
2. Press **< or >** to navigate through the functions. Once the desired function is highlighted, press the **MENU-button** to activate it. If there is a sub-menu, press **< or >** to navigate through the sub-menu functions. Once the desired function is highlighted, press **MENU-button** to activate it.
3. Press **< or >** to change the settings of the selected function. Press **AUTO** to exit. If you want to adjust any other function, repeat steps 2-3.
4. OSD Lock Function: To lock the OSD, press and hold the **MENU-button** while the monitor is off and then press **power button** to turn the monitor on. To un-lock the OSD - press and hold the **MENU-button** while the monitor is off and then press **power button** to turn the monitor on.

**Notes:**

1. If the product has only one signal input, the item of "Input Select" is disabled to adjust.
2. If the product screen size is 4:3 or input signal resolution is wide format, the item of "Image Ratio" is disabled to adjust.
3. One of DCR, Color Boost, and Picture Boost functions is activated; the other two functions are turned off accordingly.

## Luminance

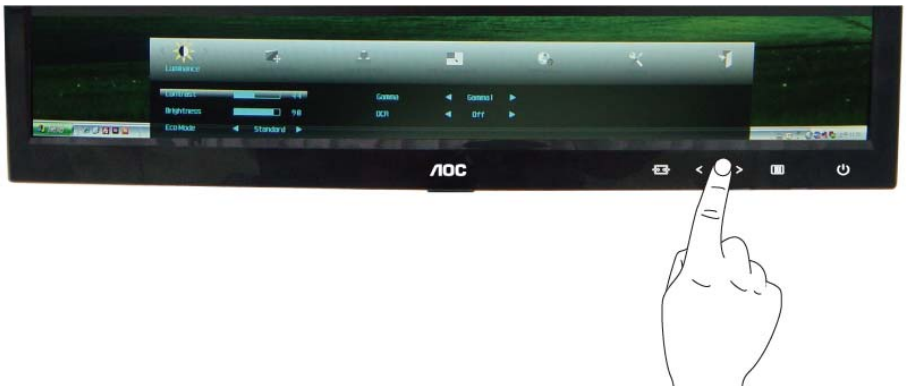
**1**

Press (Menu) to display menu.

**2**

Press < or > to select (Luminance), and press to enter.

**3**

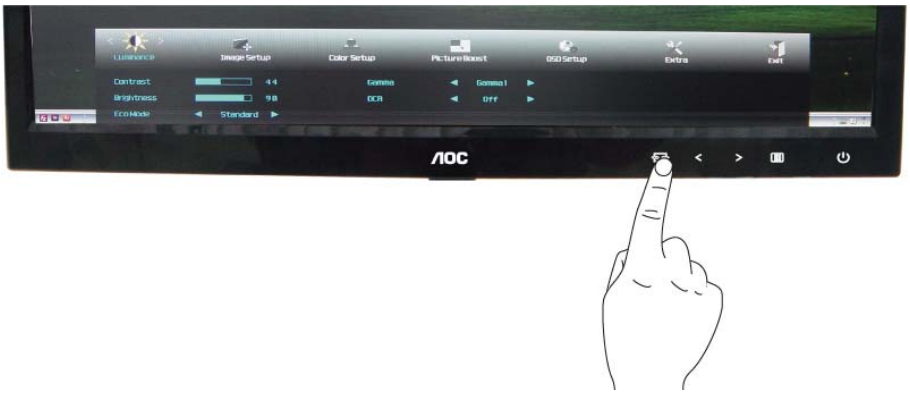



Press < or > to select submenu, and press to enter.

**4**

Press < or > to adjust.

**5**



Press ⊡ to exit.

| | | | | |
|---|---|---|---|---|
| | Brightness | 0-100 | | Backlight Adjustment |
| | Contrast | 0-100 | | Contrast from Digital-register. |
| | Eco mode | Standard | | Standard Mode |
| | | Text | | Text Mode |
| | | Internet | | Internet Mode |
| | | Game | | Game Mode |
| | | Movie | | Movie Mode |
| | | Sports | | Sports Mode |
| | Gamma | Gamma1 | | Adjust to Gamma1 |
| | | Gamma2 | | Adjust to Gamma 2 |
| | | Gamma3 | | Adjust to Gamma 3 |
| | DCR | Off | | Disable dynamic contrast ratio |
| | | On | | Enable dynamic contrast ratio |

## Image Setup

**1**

Press (Menu) to display menu.

**2**

Press < or > to select (Image Setup), and press to enter.

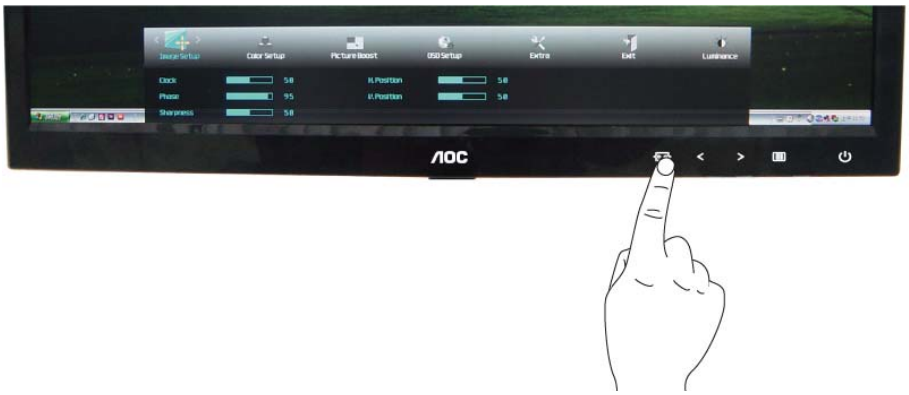
**3**

Press < or > to select submenu, and press to enter.

**4**

Press < or > to adjust.

**5**



Press ⊡ to exit.

| | | | |
|---|---|---|---|
| | Clock | 0-100 | Adjust picture Clock to reduce Vertical-Line noise. |
| | Phase | 0-100 | Adjust Picture Phase to reduce Horizontal-Line noise |
| | Sharpness | 0-100 | Adjust picture sharpness |
| | H.Position | 0-100 | Adjust the horizontal position of the picture. |
| | V.Position | 0-100 | Adjust the vertical position of the picture. |

## Color Setup

**1**

Press (Menu) to display menu.

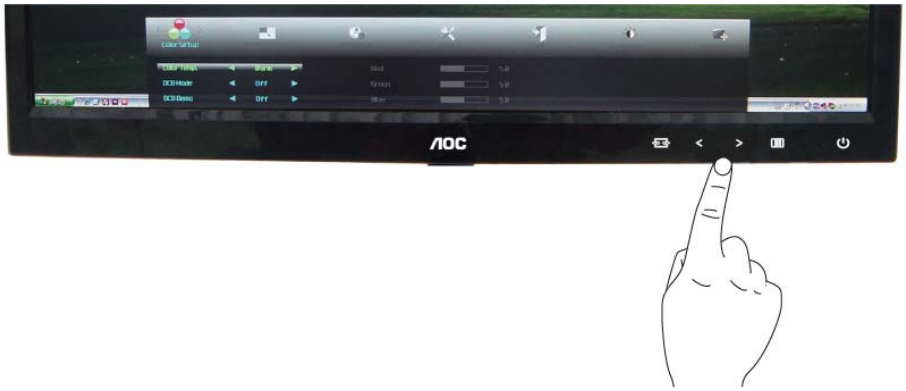
**2**

Press < or > to select (Color Setup), and press to enter.

**3**

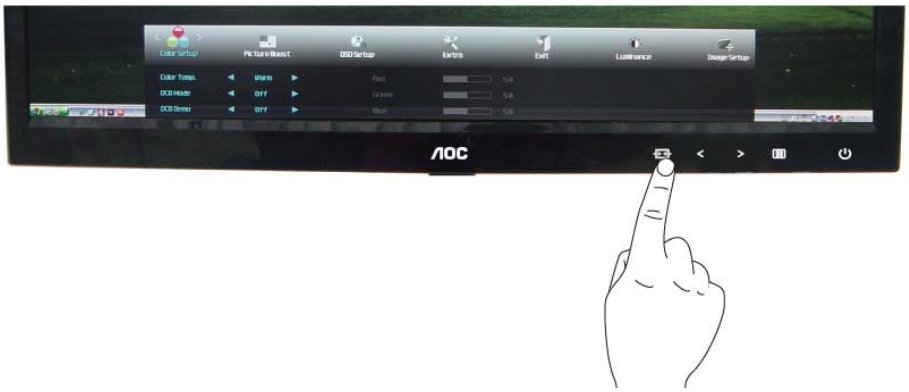
Press < or > to select submenu, and press to enter.

**4**



Press < or > to adjust.

**5**



Press ⊡ to exit.

| | | | | |
|---|---|---|---|---|
| | Color setup. | Warm | | Recall Warm Color Temperature from EEPROM. |
| | | Normal | | Recall Normal Color Temperature from EEPROM. |
| | | Cool | | Recall Cool Color Temperature from EEPROM. |
| | | sRGB | | Recall SRGB Color Temperature from EEPROM. |
| | | User | Red | Red Gain from Digital-register |
| | | | Green | Green Gain Digital-register. |
| | | | Blue | Blue Gain from Digital-register |
| | DCB Mode | Full Enhance | on or off | Disable or Enable Full Enhance Mode |
| | | Nature Skin | on or off | Disable or Enable Nature Skin Mode |
| | | Green Field | on or off | Disable or Enable Green Field Mode |
| | | Sky-blue | on or off | Disable or Enable Sky-blue Mode |
| | | AutoDetect | on or off | Disable or Enable AutoDetect Mode |
| | DCB Demo | | On or off | Disable or Enable Demo |

## Picture Boost

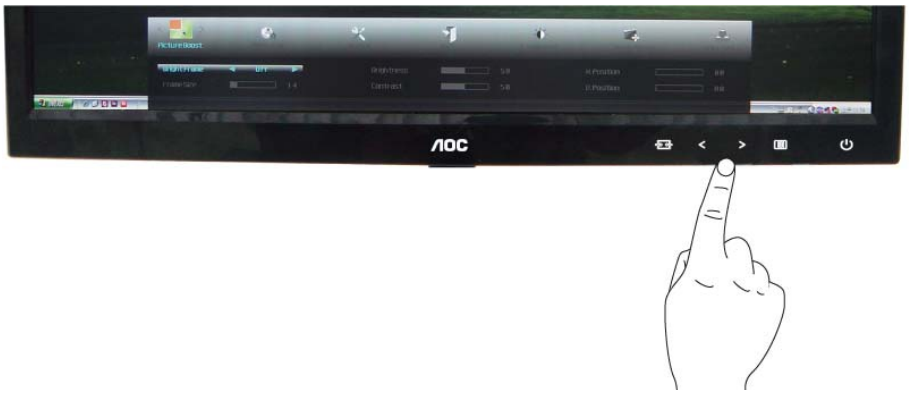
**1**

Press (Menu) to display menu.

**2**

Press < or > to select (Picture Boost), and press to enter.

**3**



Press < or > to select submenu, and press to enter.

**4**

Press < or > to adjust.

**5**

Press ⊡ to exit.

| | | | |
|---|---|---|---|
| | Frame Size | 14-100 | Adjust Frame Size |
| | Brightness | 0-100 | Adjust Frame Brightness |
| | Contrast | 0-100 | Adjust Frame Contrast |
| | H. position | 0-100 | Adjust Frame horizontal Position |
| | V.position | 0-100 | Adjust Frame vertical Position |
| | Bright Frame | on or off | Disable or Enable Bright Frame |

## OSD Setup

**1**

Press (Menu) to display menu.

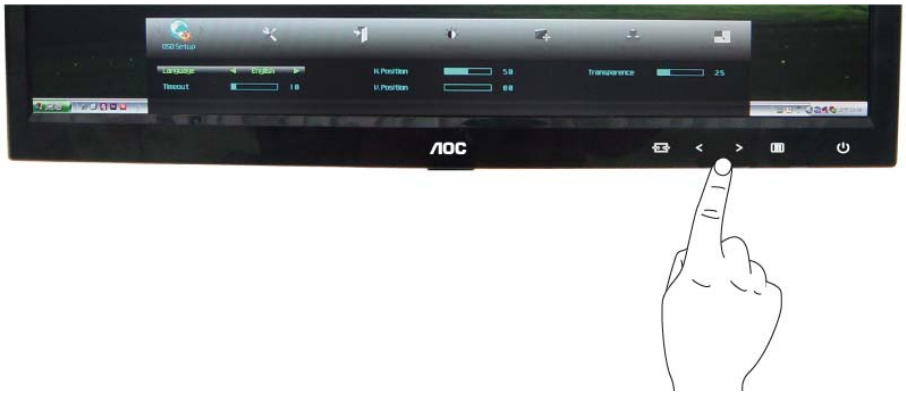
**2**

Press < or > to select (OSD Setup), and press to enter.

**3**

Press < or > to select submenu, and press to enter.

**4**



Press < or > to adjust.

**5**

Press ⊏+ to exit.

| | | | |
|---|---|---|---|
| | H.Position | 0-100 | Adjust the horizontal position of OSD |
| | V.Position | 0-100 | Adjust the vertical position of OSD |
| | Timeout | 5-120 | Adjust the OSD Timeout |
| | Transparence | 0-100 | Adjust the transparence of OSD |
| | Language | | Select the OSD language |

## Extra

**1**

Press (Menu) to display menu.

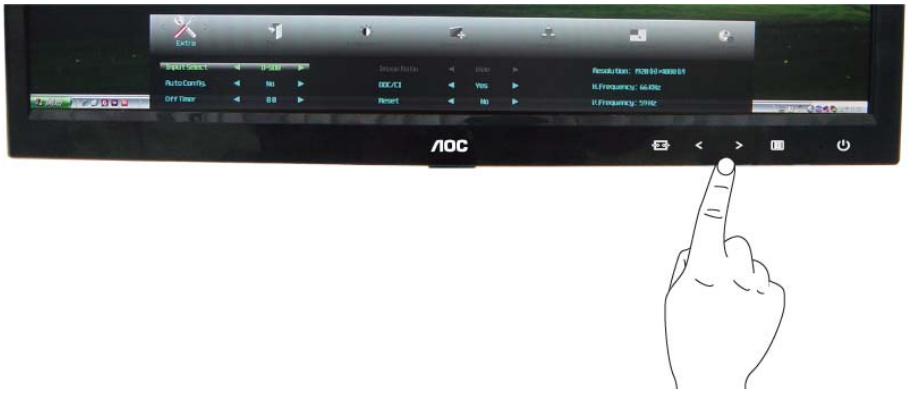
**2**

Press < or > to select (Extra), and press to enter.

**3**

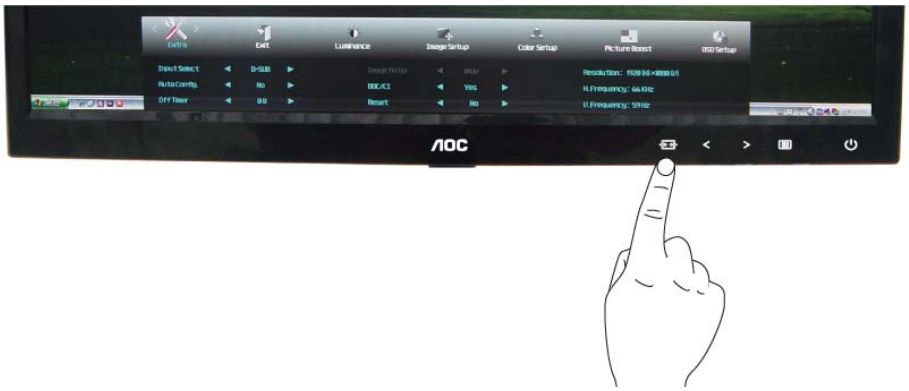
Press < or > to select submenu, and press to enter.

**4**



Press < or > to adjust.

**5**



Press ⊡ to exit.

| | | | |
|---|---|---|---|
| | Input Select | Analog | Select Analog Signal Source as Input |
| | Auto Config | yes or no | Auto adjust the picture to default |
| | Off timer | 0-24hrs | Select DC off time |
| | Image Ratio | wide or 4:3 | Select wide or 4:3 format for display |
| | DDC-CI | yes or no | Turn ON/OFF DDC-CI Support |
| | Reset | Yes or no | Reset the menu to default |
| | Information | | Show the information of the main image and sub-image source |

## Exit

**1**

Press (Menu) to display menu.

**2**

Press < or > to select (Exit), and press to exit.

| | | | |
|---|---|---|---|
| | Exit | | Exit the main OSD |

# LED Indicator

| **Status** | **LED Color** |
|---|---|
| Full Power Mode | Blue |
| Active-off Mode | Orange |

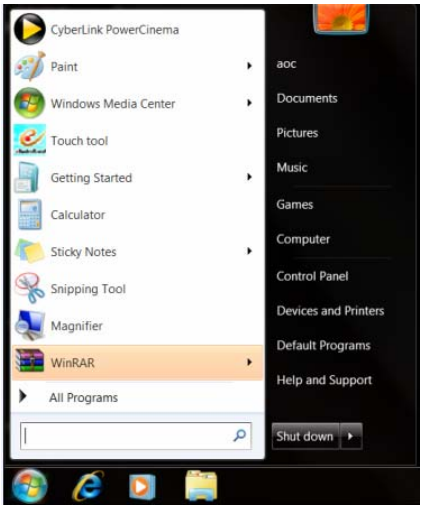
# Driver

## Monitor Driver

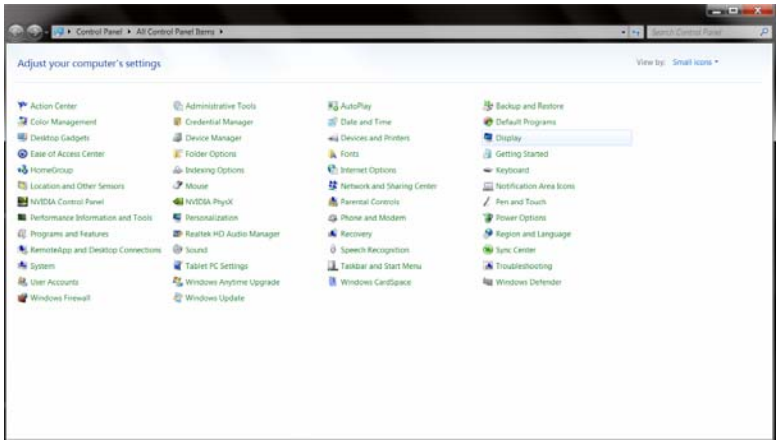
### Windows 7

1. Start Windows® 7

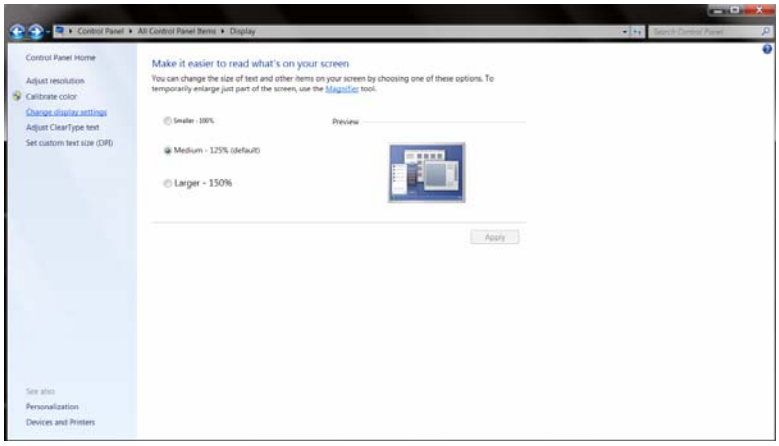
2. Click on the **'Start'** button and then click on **'Control Panel'.**



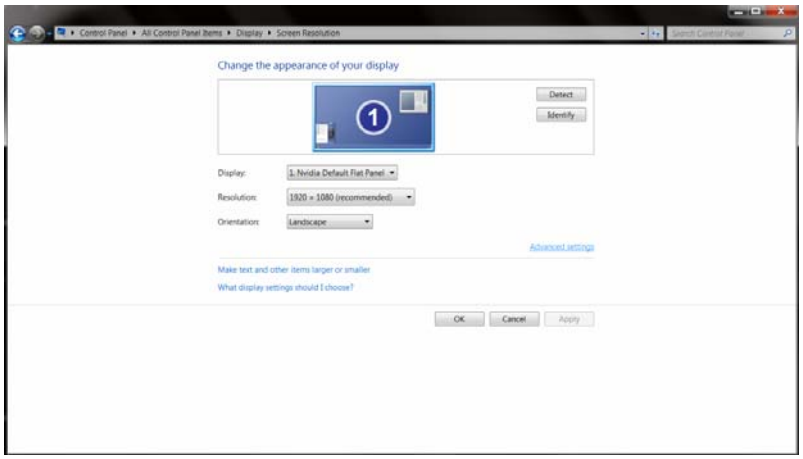

3. Click on the **'Display'** icon.



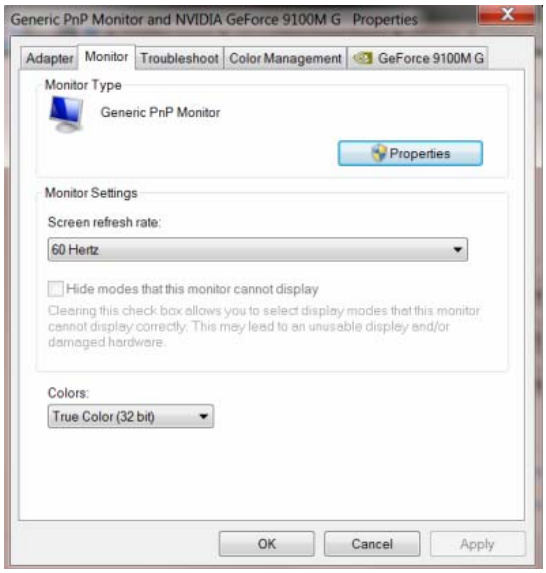
4. Click on the **“Change display settings”** button.


Control Panel Home
Adjust resolution
Calibrate color
Change display settings
Adjust ClearType text
Set custom text size (DPI)
Make it easier to read what's on your screen
You can change the size of text and other items on your screen by choosing one of these options. To temporarily enlarge just part of the screen, use the Magnifier tool.
Smaller - 100%
Medium - 125% (default)
Larger - 150%
Preview
Apply
See also
Personalization
Devices and Printers

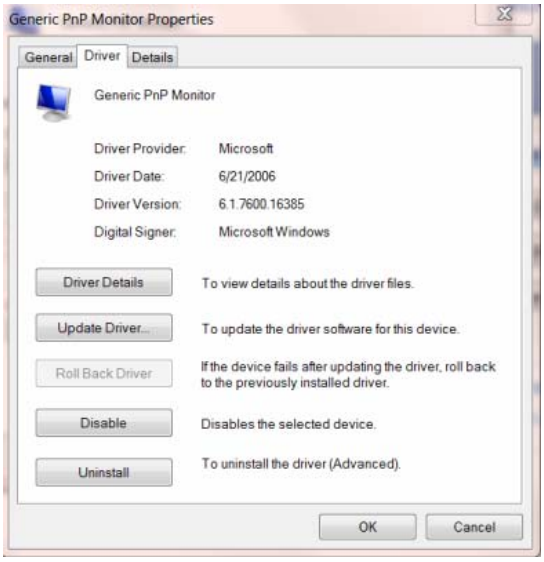
5. Click the “**Advanced Settings”** button.



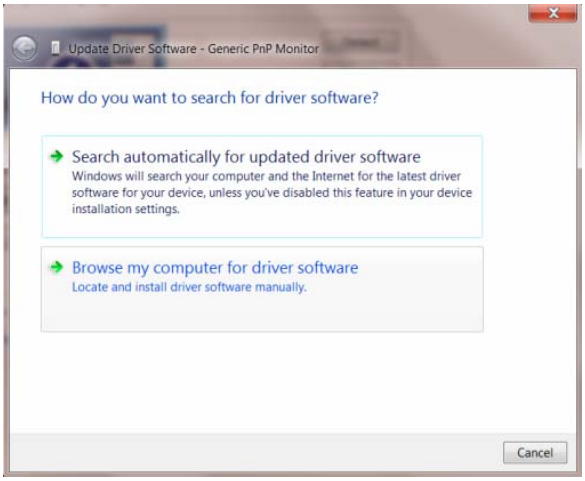

6. Click the **“Monitor”** tab and then click the **“Properties”** button.



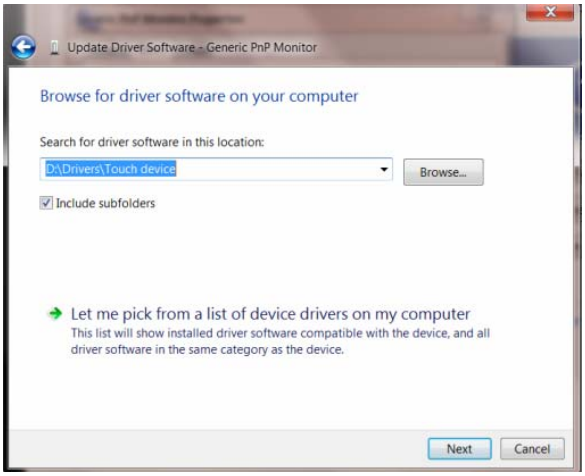
7. Click the **“Driver”** tab.



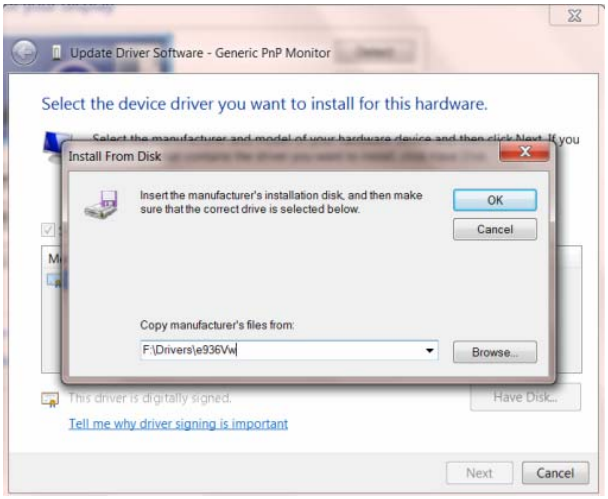

8. Open the "Update Driver Software-Generic PnP Monitor" window by clicking on **“Update Driver... “** and then click the **"Browse my computer for driver software"** button.


Update Driver Software - Generic PnP Monitor
How do you want to search for driver software?
Search automatically for updated driver software
Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.
Browse my computer for driver software
Locate and install driver software manually.
Cancel

9. Select **"Let me pick from a list of device drivers on my computer"**.


Update Driver Software - Generic PnP Monitor
Browse for driver software on your computer
Search for driver software in this location:
D:\Drivers\Touch device
Browse...
Include subfolders
Let me pick from a list of device drivers on my computer
This list will show installed driver software compatible with the device, and all driver software in the same category as the device.
Next
Cancel

10. Click the **“Have Disk”** button. Click on the **“Browse”** button and navigate to the following directory: X:\Driver\module name (where X is the drive letter designator for the CD-ROM drive).


Update Driver Software - Generic PnP Monitor
Select the device driver you want to install for this hardware.
Install From Disk
Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.
OK
Cancel
Copy manufacturer's files from:
F:\Drivers\e936Vw
Browse...
This driver is digitally signed.
Have Disk...
Tell me why driver signing is important
Next
Cancel

11. Select the **"xxx.inf"** file and click the **“Open”** button. Click the **“OK”** button.

12. Select your monitor model and click the **“Next”** button. The files will be copied from the CD to your hard disk drive.

13. Close all open windows and remove the CD.

14. Restart the system. The system will automatically select the maximum refresh rate and corresponding Color Matching Profiles.

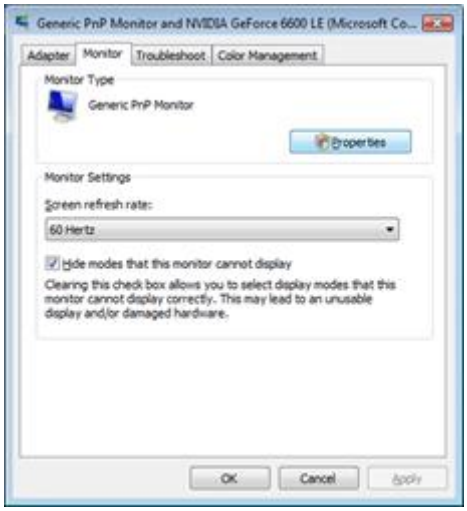
## Windows Vista

1. Click "Start" and "Control Panel". Then, double-click on "Appearance and Personalization".

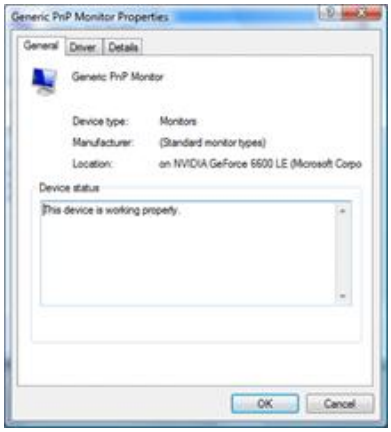
2. Click "Personalization" and then "Display Settings".

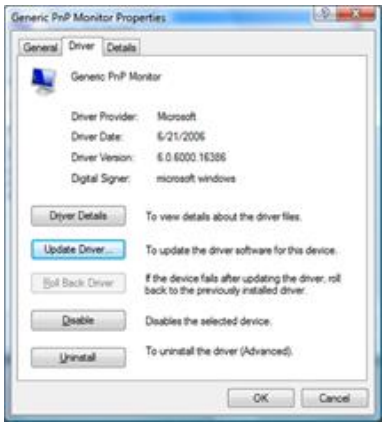
3. Click "Advanced Settings...".

4. Click "Properties" in the "Monitor" tab. If the "Properties" button is deactivated, it means the configuration for your monitor is completed. The monitor can be used as is.
   If the message "Windows needs..." is displayed, as shown in the figure below, click "Continue".

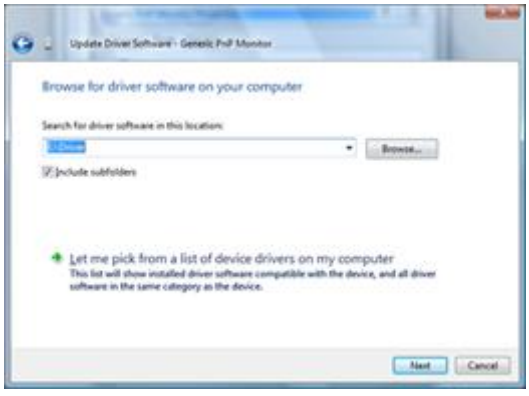

Generic PnP Monitor and NVIDIA GeForce 6600 LE (Microsoft Co...
Adapter
Monitor
Troubleshoot
Color Management
Monitor Type
Generic PnP Monitor
Properties
Monitor Settings
Screen refresh rate:
60 Hertz
Hide modes that this monitor cannot display
Clearing this check box allows you to select display modes that this monitor cannot display correctly. This may lead to an unusable display and/or damaged hardware.
OK
Cancel
Apply

5. Click "Update Driver..." in the "Driver" tab.




6. Check the "Browse my computer for driver software" checkbox and click "Let me pick from a list of device drivers on my computer".

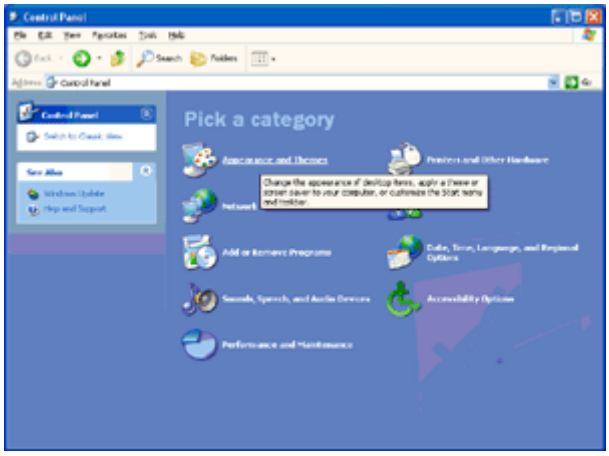

Update Driver Software - Generic PnP Monitor
Browse for driver software on your computer
Search for driver software in this location:
Browse...
Include subfolders
Let me pick from a list of device drivers on my computer
This list will show installed driver software compatible with the device, and all driver software in the same category as the device.
Next
Cancel

7. Click on the 'Have disk...' button, then click on the 'Browse...' button and then select the appropriate drive F:\Driver (CD-ROM Drive).
8. Select your monitor model and click on the 'Next' button.
9. Click "Close" → "Close" → "OK" → "OK" on the following screens displayed in sequence.

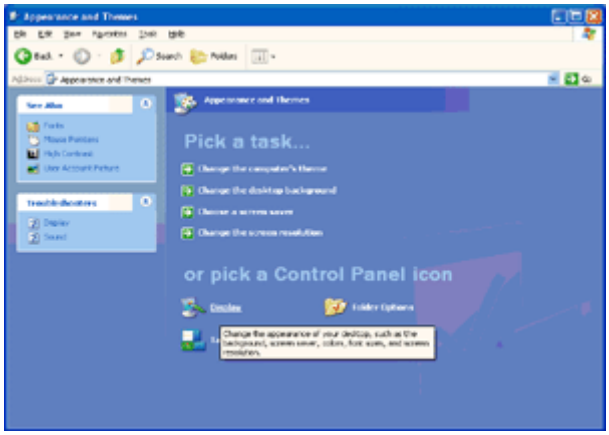
## Windows XP

1. Start Windows® XP.
2. Click on the 'Start' button and then click on 'Control Panel'.

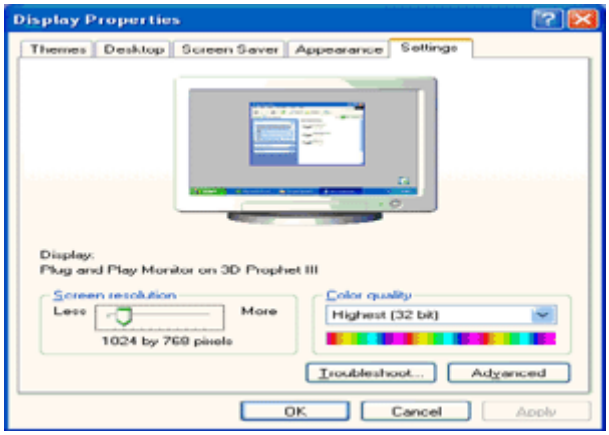
3. Select and click on the category ‘Appearance and Themes’.




4. Click on the 'Display' Item.



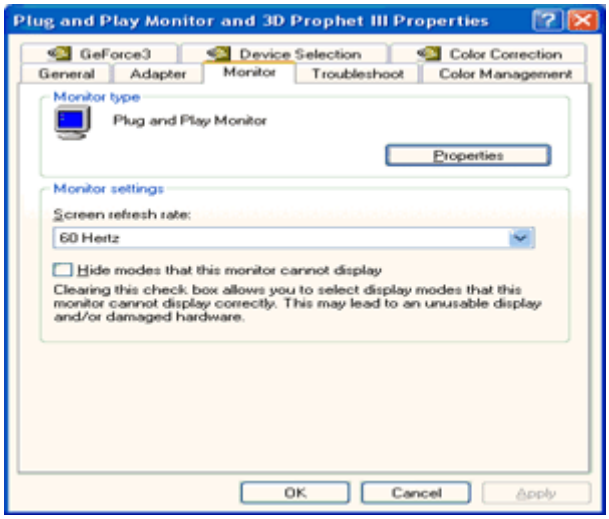
5. Select the 'Settings' tab then click on the 'Advanced' button.



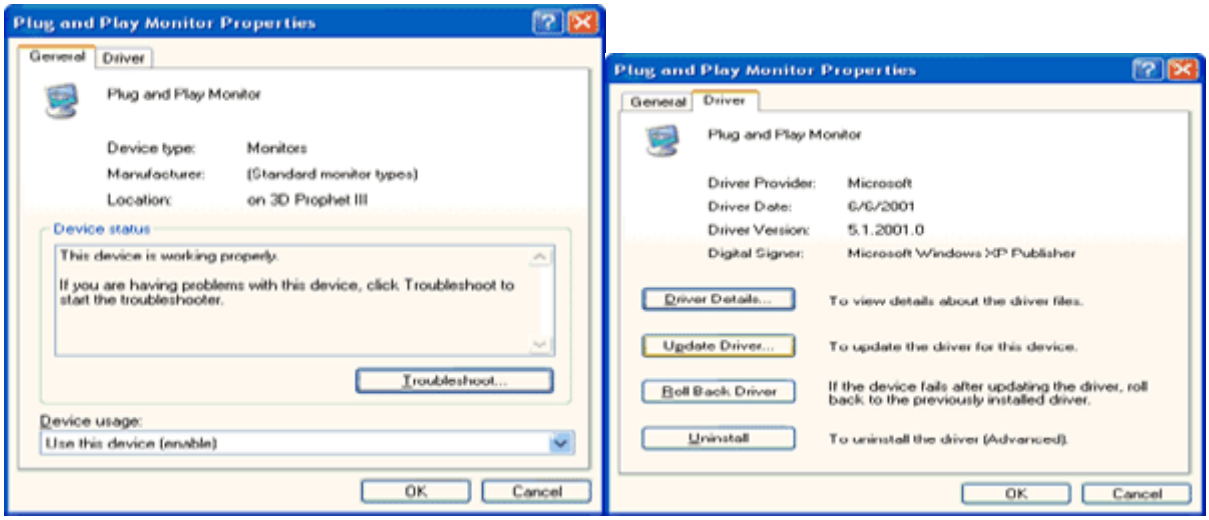

6. Select 'Monitor' tab

- If the 'Properties' button is inactive, it means your monitor is properly configured. Please stop installation.
- If the 'Properties' button is active, click on 'Properties' button.

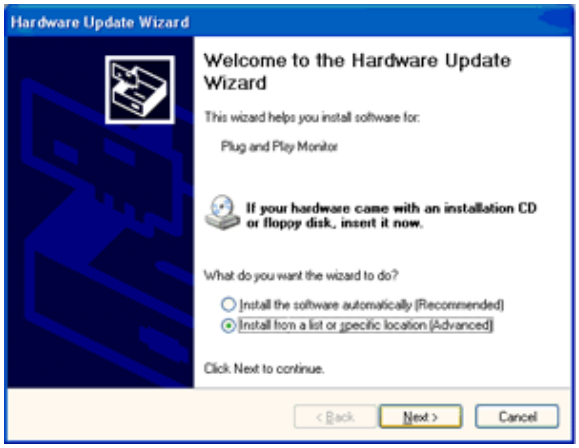
Please follow the steps below.



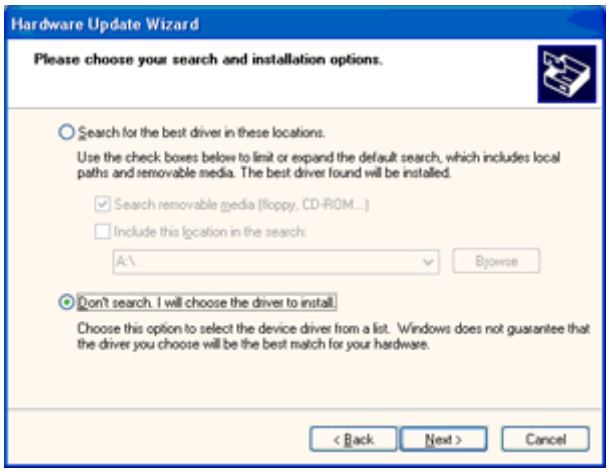

7. Click on the 'Driver' tab and then click on 'Update Driver...' button.



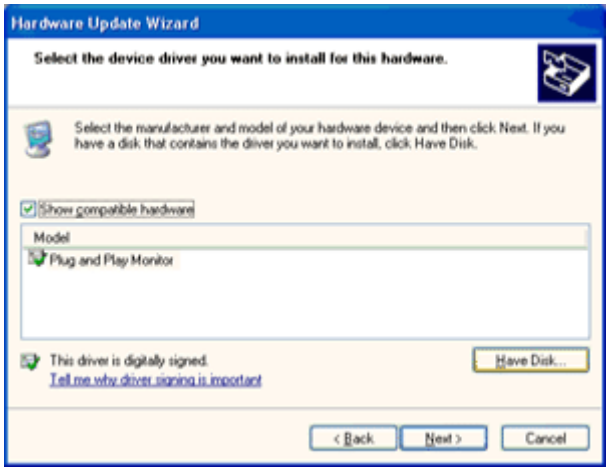
8. Select the 'Install from a list or specific location [advanced]' radio button and then click on the 'Next' button.


Hardware Update Wizard
Welcome to the Hardware Update Wizard
This wizard helps you install software for:
Plug and Play Monitor
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

9. Select the 'Don't Search. I will choose the driver to install' radio button. Then click on the 'Next' button.


Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
A:\
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

10. Click on the 'Have disk...' button, then click on the 'Browse...' button and then select the appropriate drive F: (CD-ROM Drive).


Hardware Update Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Show compatible hardware
Model
Plug and Play Monitor
This driver is digitally signed.
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

11. Click on the 'Open' button, then click the 'OK' button.
12. Select your monitor model and click on the 'Next' button.
    - If you can see the 'has not passed Windows® Logo testing to verify its compatibility with Windows® XP' message, please click on the 'Continue Anyway' button.
13. Click on the 'Finish' button then the 'Close' button.
14. Click on the 'OK' button and then the 'OK' button again to close the Display Properties dialog box.

## Windows 2000

1. Start Windows® 2000.
2. Click on the 'Start' button, point to 'Settings', and then click on 'Control Panel'.
3. Double click on the 'Display' Icon.
4. Select the 'Settings' tab then click on 'Advanced...'.
5. Select 'Monitor'
   - If the 'Properties' button is inactive, it means your monitor is properly configured. Please stop installation.
   - If the 'Properties' button is active. Click on 'Properties' button. Please follow the steps given below.
6. Click on 'Driver' and then click on 'Update Driver...' then click on the 'Next' button.
7. Select 'Display a list of the known drivers for this device so that I can choose a specific driver', then click on 'Next' and then click on 'Have disk...'.
8. Click on the 'Browse...' button then select the appropriate drive F: (CD-ROM Drive).
9. Click on the 'Open' button, then click on the 'OK' button.
10. Select your monitor model and click on the 'Next' button.
11. Click on the 'Finish' button then the 'Close' button.
    If you can see the 'Digital Signature Not Found' window, click on the 'Yes' button.

## Windows ME

1. Start Windows® Me
2. Click on the 'Start' button, point to 'Settings', and then click on 'Control Panel'.
3. Double click on the 'Display' Icon.
4. Select the 'Settings' tab then click on 'Advanced...'.
5. Select the 'Monitor' button, then click on 'Change...' button.
6. Select 'Specify the location of the driver (Advanced)' and click on the 'Next' button.
7. Select 'Display a list of all the drivers in a specific location, so you can choose the driver you want', then click on 'Next' and then click on 'Have Disk...'.
8. Click on the 'Browse...' button, select the appropriate drive F: (CD-ROM Drive) then click on the 'OK' button.
9. Click on the 'OK' button, select your monitor model and click on the 'Next' button.
10. Click on 'Finish' button then the 'Close' button.

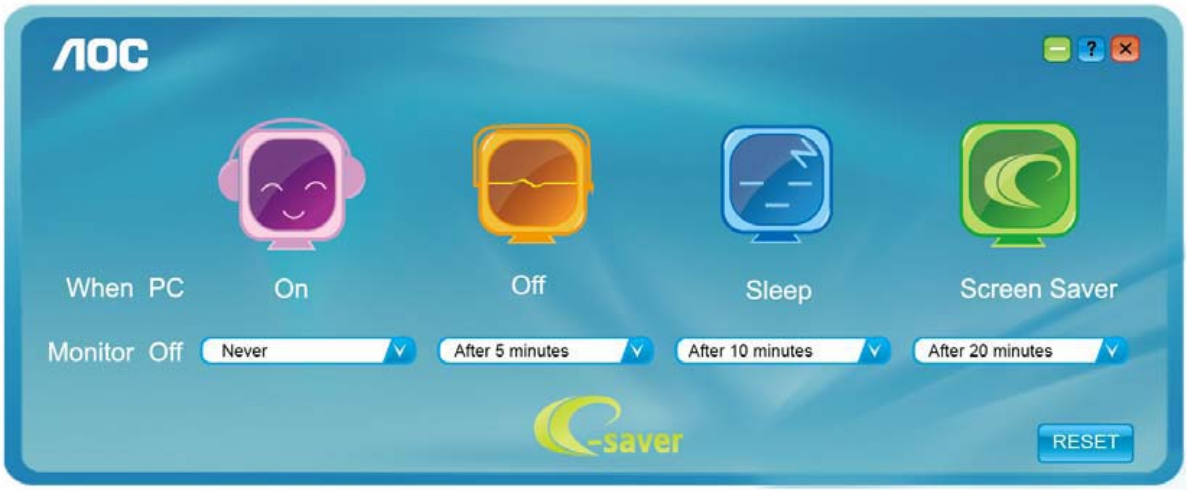
# i-Menu

Welcome to “i-Menu” software by AOC. i-Menu makes it easy to adjust your monitor display setting by using on screen menus instead of the OSD button on the monitor. To complete installation, please follow the installation guide.

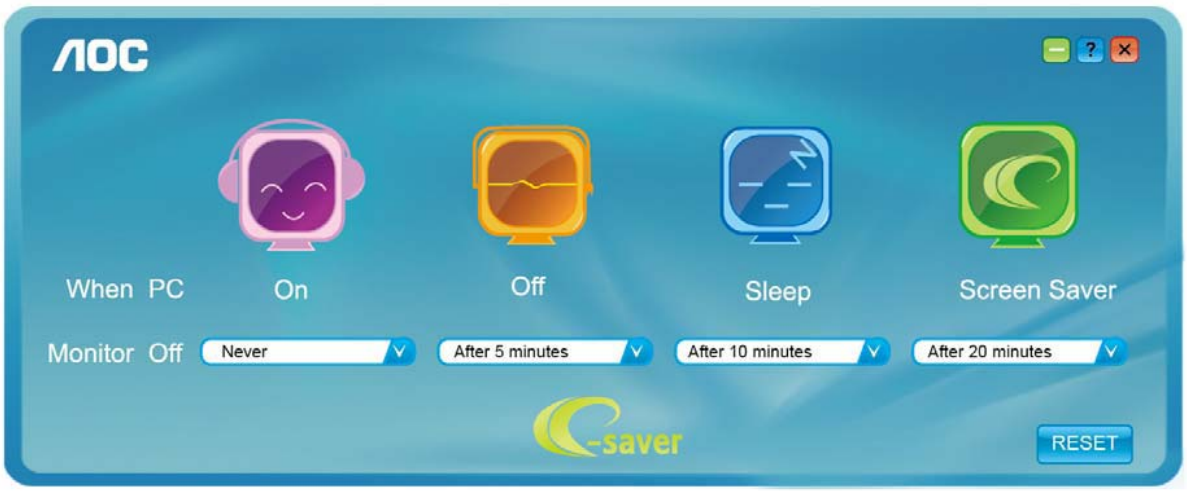
# e-Saver

Welcome to use AOC e-Saver monitor power management software! The AOC e-Saver features Smart Shutdown functions for your monitors, allows your monitor to timely shutdown when PC unit is at any status (On, Off, Sleep or Screen Saver); the actual shutdown time depends on your preferences (see example below).
Please click on "driver/e-Saver/setup.exe" to start installing the e-Saver software, follow the install wizard to complete software installation.

Under each of the four PC statuses, you may choose the desired time (in minutes) from the pull-down menu for your monitor to automatically shutdown. The example below illustrated:
1) The monitor will never shutdown when the PC is powered on.
2) The monitor will automatically shutdown 5 minutes after the PC is powered off.
3) The monitor will automatically shutdown 10 minutes after the PC is in sleep/stand-by mode.
4) The monitor will automatically shutdown 20 minutes after the screen saver appears.




You can click “RESET” to set the e-Saver to its default settings like below.



# Screen+

Welcome to "Screen+" software by AOC, Screen+ software is a desktop screen splitting tool, it splits the desktop into different panes, each pane displays a different window. You only need to drag the window to a corresponding pane, when you want to access it. It supports multiple monitor display to make your task easier. Please follow the installation software to install it.

# Troubleshoot

| **Problem & Question** | Possible Solutions |
|---|---|
| **Power LED Is Not ON** | Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor. |
| **No images on the screen** | ● Is the power cord connected properly?<br>Check the power cord connection and power supply.<br>● Is the cable connected correctly?<br>(Connected using the D-sub cable)<br>Check the DB-15 cable connection.<br>(Connected using the DVI cable)<br>Check the DVI cable connection.<br>* DVI input is not available on every model.<br>● If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen.<br>If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/XP/2000) and then change the frequency of the video card.<br>(Refer to the Setting the Optimal Resolution)<br>If the initial screen (the login screen) does not appear, contact the Service Center or your dealer.<br>● Can you see "Input Not Supported" on the screen?<br>You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly.<br>Adjust the maximum resolution and frequency that the monitor can handle properly.<br>● Make sure the AOC Monitor Drivers are installed. |
| **Picture Is Fuzzy & Has Ghosting Shadowing Problem** | Adjust the Contrast and Brightness Controls.<br>Press to auto adjust.<br>Make sure you are not using an extension cable or switch box. We recommend plugging the monitor directly to the video card output connector on the back. |
| **Picture Bounces, Flickers Or Wave Pattern Appears In The Picture** | Move electrical devices that may cause electrical interference as far away from the monitor as possible.<br>Use the maximum refresh rate your monitor is capable of at the resolution your are using. |

| | |
|---|---|
| **Monitor Is Stuck In Active Off-Mode"** | The Computer Power Switch should be in the ON position.<br>The Computer Video Card should be snugly fitted in its slot.<br>Make sure the monitor's video cable is properly connected to the computer.<br>Inspect the monitor's video cable and make sure no pin is bent.<br>Make sure your computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key. |
| **Missing one of the primary colors (RED, GREEN, or BLUE)** | Inspect the monitor's video cable and make sure that no pin is damaged.<br>Make sure the monitor's video cable is properly connected to the computer. |
| **Screen image is not centered or sized properly** | Adjust H-Position and V-Position or press hot-key (AUTO). |
| **Picture has color defects (white does not look white)** | Adjust RGB color or select desired color temperature. |
| **Horizontal or vertical disturbances on the screen** | Use Windows 95/98/2000/ME/XP shut-down mode Adjust CLOCK and FOCUS.<br>Press to auto-adjust. |

# Specification

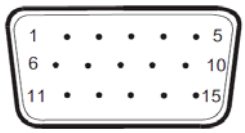
## General Specification

| | | |
|---|---|---|
| Panel | Model name | e2051F |
| | Driving system | TFT Color LCD |
| | Viewable Image Size | 508.05 mm diagonal |
| | Pixel pitch | 0.0922*RGB(H)mm x 0.2766(V)mm |
| | Video | R, G, B Analog Interface |
| | Separate Sync. | H/V TTL |
| | Display Color | 16.7M Colors |
| | Dot Clock | 108 MHz |
| Resolution | Horizontal scan range | 48kHz - 76kHz |
| | Horizontal scan Size(Maximum) | 442.8 mm |
| | Vertical scan range | 48Hz - 76Hz |
| | Vertical scan Size(Maximum) | 249.075mm |
| | Optimal preset resolution | 1600×900@60Hz |
| | Plug & Play | VESA DDC2B |
| | Input Connector | VGA/DVI |
| | Input Video Signal | Analog: 0.7Vp-p(standard), 75 OHM, Positive |
| | Power Source | 100-240V ~, 50/60Hz |
| | Power Consumption | 26 W |
| | | Standby < 0.5 W |
| | Off timer | 0-24 hrs |
| Physical Characteristics | Connector Type | VGA\DVI |
| | Signal Cable Type | Detachable |
| | Dimensions & Weight: | |
| | Height (with base) | 391.3 mm |
| | Width | 479 mm |
| | Depth | 178.7 mm |
| | Weight (monitor only) | 1.912 kg |
| | Weight (with packaging) | 3 kg |
| Environmental | Temperature: | |
| | Operating | 0° to 40° |
| | Non-Operating | -25°to 55° |
| | Humidity: | |
| | Operating | 10% to 85% (non-condensing) |
| | Non-Operating | 5% to 93% (non-condensing) |
| | Altitude: | |
| | Operating | 0~ 3658m (0~ 12000 ft ) |
| | Non-Operating | 0~ 12192m (0~ 40000 ft ) |

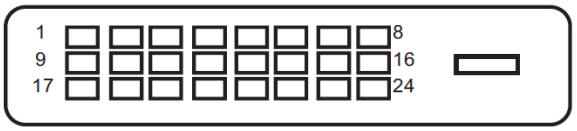
# Preset Display Modes

| STAND | RESOLUTION | HORIZONTAL FREQUENCY(kHZ) | VERTICAL FREQUENCY(Hz) |
|---|---|---|---|
| VGA | 640×480 @60Hz | 31.469 | 59.940 |
| VGA | 640×480 @72Hz | 37.861 | 72.809 |
| VGA | 640×480 @75Hz | 37.500 | 75.000 |
| SVGA | 800×600 @56Hz | 35.156 | 56.250 |
| SVGA | 800×600 @60Hz | 37.879 | 60.317 |
| SVGA | 800×600 @72Hz | 48.077 | 72.188 |
| SVGA | 800×600 @75Hz | 46.875 | 75.000 |
| XGA | 1024×768 @60Hz | 48.363 | 60.004 |
| XGA | 1024×768 @70Hz | 56.476 | 70.069 |
| XGA | 1024×768 @75Hz | 60.023 | 75.029 |
| 702P | 1280×720 @60Hz | 45.000 | 60.000 |
| WSXGA | 1600×900 @60Hz | 60.000 | 60.000 |
| Dos-mode | 720×400 @70Hz | 31.469 | 70.087 |
| VGA | 640×480 @67Hz | 35.000 | 66.667 |
| SVGA | 832×624 @75Hz | 49.725 | 74.551 |

# Pin Assignments




| Pin Number | 15-Pin Side of the Signal Cable | Pin Number | 15-Pin Side of the Signal Cable |
|---|---|---|---|
| 1 | Video-Red | 9 | +5V |
| 2 | Video-Green | 10 | Ground |
| 3 | Video-Blue | 11 | N.C. |
| 4 | N.C. | 12 | DDC-Serial data |
| 5 | Detect Cable | 13 | H-sync |
| 6 | GND-R | 14 | V-sync |
| 7 | GND-G | 15 | DDC-Serial clock |
| 8 | GND-B | | |




| Pin Number | 24-Pin Color Display Signal Cable | Pin Number | 24-Pin Color Display Signal Cable |
|---|---|---|---|
| 1 | TMDS data 2－ | 13 | TMDS data 3＋ |
| 2 | TMDS data 2＋ | 14 | ＋5V Power |
| 3 | TMDS data 2/4 Shield | 15 | Ground (for+5V) |
| 4 | TMDS data 4－ | 16 | Hot Plug Detect |
| 5 | TMDS data 4＋ | 17 | TMDS data 0－ |
| 6 | DDC Clock | 18 | TMDS data 0＋ |
| 7 | DDC Data | 19 | TMDS data 0/5 Shield |
| 8 | N.C. | 20 | TMDS data 5－ |
| 9 | TMDS data 1－ | 21 | TMDS data 5＋ |
| 10 | TMDS data 1＋ | 22 | TMDS Clock Shield |
| 11 | TMDS data 1/3 Shield | 23 | TMDS Clock + |
| 12 | TMDS data 3－ | 24 | TMDS Clock － |

# Plug and Play

**Plug & Play DDC2B Feature**

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.

The DDC2B is a bi-directional data channel based on the I2C protocol. The host can request EDID information over the DDC2B channel.

# Regulation

## FCC Notice

**FCC Class B Radio Frequency Interference Statement WARNING: (FOR FCC CERTIFIED MODELS)**

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

**NOTICE:**

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference. It is the responsibility of the user to correct such interference.

# WEEE Declaration

Disposal of Waste Equipment by Users in Private Household in the European Union.

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

# EPEAT Declaration

EPEAT is a system to help purchasers in the public and private sectors evaluate, compare and select desktop computers, notebooks and monitors based on their environmental attributes. EPEAT also provides a clear and consistent set of performance criteria for the design of products, and provides an opportunity for manufacturers to secure market recognition for efforts to reduce the environmental impact of its products.

AOC believes in protecting the environment.
With a key concern for the conservation of natural resources, as well as landfill protection, AOC announces the launch of AOC monitor's packaging recycling program. This program is designed to help you discard of your monitor carton and filler materials properly. If a local recycling center is not available, AOC will recycle the packaging material for you, including foam filler and carton. AOC Display solution will only recycle AOC monitor packaging. Please refer to the following website address:

**Only for North and South American, excluding Brazil:**
http://us.aoc.com/about/environmental_impact

**For Germany:**
http://www.aoc-europe.com/en/service/tco.php

**For Brazil:**
http://www.aoc.com.br/2007/php/index.php?req=pagina&pgn_id=134

# Service

## Warranty Statement for Europe

LIMITED THREE-YEAR WARRANTY*
AOC Color Monitors sold within Europe
AOC International (Europe) GmbH warrants this product to be free from defects in material and workmanship for a period of Three (3) years after the original date of consumer purchase. During this period, AOC International (Europe) GmbH will, at its option, either repair the defective product with new or rebuilt parts, or replace it with a new or rebuilt product at no charge except as *stated below. The defective products that are replaced become the property of AOC International (Europe) GmbH.

If the product appears to be defective, please contact your local dealer or refer to the warranty card when attached to the product.

Deliver the product freight pre-paid, along with the dated proof of purchase, to the AOC Authorized Service Center. If you cannot deliver the product in person:

- Pack it in its original shipping container (or equivalent)
- Put the RMA number on the address label
- Put the RMA number on the shipping carton
- Insure it (or assume the risk of loss/damage during shipment)
- Pay all shipping charges

AOC International (Europe) GmbH is responsible neither for any damage or loss during inbound transport damage nor to inbound product that was not properly packaged.

AOC International (Europe) GmbH will pay the return shipping charges within one of the countries specified within this warranty statement. AOC International (Europe) GmbH is not responsible for any costs associated with the transportation of product across international borders. This includes the international border within the European Union.

* This limited warranty does not cover any losses or damages that occur as a result of

- Shipping or improper installation or maintenance
- Misuse
- Neglect
- Any cause other than ordinary commercial or industrial application
- Adjustment by non-authorized source
- Repair, modification, or installation of options or parts by anyone other than an AOC Authorized Service Center
- Improper environment
- Excessive or inadequate heating or air conditioning or electrical powers failures, surges, or other irregularities

This limited warranty does not cover any of the product firmware or hardware that you or any third party have modified or altered; you bear the sole responsibility and liability for any such modification or alteration.

ALL EXPRESS AND IMPLIED WARRANTIES FOR THIS PRODUCT (INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE LIMITED IN DURATION TO A PERIOD OF THREE (3) YEARS FOR PARTS AND LABOR FROM THE ORIGINAL DATE OF CONSUMER PURCHASE. NO WARRANTIES (EITHER EXPRESSED OR IMPLIED) APPLY AFTER THIS PERIOD.

AOC INTERNATIONAL (EUROPE) GMBH OBLIGATIONS AND YOUR REMEDIES HEREUNDER ARE SOLELY AND EXCLUSIVELY AS STATED HERE. AOC INTERNATIONAL (EUROPE) GMBH LIABILITY, WHETHER BASED ON CONTRACT, TORT, WARRANTY, STRICT LIABILITY, OR OTHER THEORY, SHALL NOT EXCEED THE PRICE OF THE INDIVIDUAL UNIT WHOSE DEFECT OR DAMAGE IS THE BASIS OF THE CLAIM. IN NO EVENT SHALL AOC INTERNATIONAL (EUROPE) GMBH BE LIABLE FOR ANY LOSS OF PROFITS, LOSS OF USE OR FACILITIES OR EQUIPMENT, OR OTHER INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALTHOUGH THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, YOU MAY HAVE OTHER RIGHTS, WHICH MAY VARY FROM COUNTRY TO COUNTRY. THIS LIMITED WARRANTY IS ONLY VALID FOR PRODUCTS PURCHASED IN THE MEMBER COUNTRIES OF THE EUROPEAN UNION.

Information in this document is subject to change without notice.
For more details, please visit: **http://www.aoc-europe.com/en/service/index.php**

## Warranty Statement for North & South America (excluding Brazil)

WARRANTY STATEMENT
for AOC Color Monitors
Including those Sold within North America as Specified

Envision Peripherals, Inc. warrants this product to be free from defects in material and workmanship for a period of three (3) years for parts & labor and one (1) year for CRT Tube or LCD Panel after the original date of consumer purchase. During this period, EPI ( EPI is the abbreviation of Envision Peripherals, Inc. ) will, at its option, either repair the defective product with new or rebuilt parts, or replace it with a new or rebuilt product at no charge except as *stated below. The parts or product that are replaced become the property of EPI.

In the USA to obtain service under this limited warranty, call EPI for the name of the Authorized Service Center closest to your area. Deliver the product freight pre-paid, along with the dated proof of purchase, to the EPI Authorized Service Center. If you cannot deliver the product in person:

- Pack it in its original shipping container (or equivalent)
- Put the RMA number on the address label
- Put the RMA number on the shipping carton
- Insure it (or assume the risk of loss/damage during shipment)
- Pay all shipping charges

EPI is not responsible for damage to inbound product that was not properly packaged.
EPI will pay the return shipment charges within one of the countries specified within this warranty statement. EPI is not responsible for any costs associated with the transportation of product across international borders. This includes the international borders of the countries within this warranty statements.

In the United States and Canada contact your Dealer or EPI Customer Service, RMA Department at the toll free number (888) 662-9888. Or you can request an RMA Number online at www.aoc.com/na-warranty.

* This limited warranty does not cover any losses or damages that occur as a result of:

- Shipping or improper installation or maintenance
- Misuse
- Neglect
- Any cause other than ordinary commercial or industrial application
- Adjustment by non-authorized source
- Repair, modification, or installation of options or parts by anyone other than an EPI Authorized Service Center
- Improper environment
- Excessive or inadequate heating or air conditioning or electrical power failures, surges, or other irregularities

This three-year limited warranty does not cover any of the product's firmware or hardware that you or any third party have modified or altered; you bear the sole responsibility and liability for any such modification or alteration.

ALL EXPRESS AND IMPLIED WARRANTIES FOR THIS PRODUCT (INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE LIMITED IN DURATION TO A PERIOD OF THREE (3) YEARS FOR PARTS AND LABOR AND ONE (1) YEAR FOR CRT TUBE OR LCD PANEL FROM THE ORIGINAL DATE OF CONSUMER PURCHASE. NO WARRANTIES (EITHER EXPRESSED OR IMPLIED) APPLY AFTER THIS PERIOD. IN THE UNITED STATES OF AMERICA, SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

EPI OBLIGATIONS AND YOUR REMEDIES HEREUNDER ARE SOLELY AND EXCLUSIVELY AS STATED HERE. EPI' LIABILITY, WHETHER BASED ON CONTRACT, TORT. WARRANTY, STRICT LIABILITY, OR OTHER THEORY, SHALL NOT EXCEED THE PRICE OF THE INDIVIDUAL UNIT WHOSE DEFECT OR DAMAGE IS THE BASIS OF THE CLAIM. IN NO EVENT SHALL ENVISION PERIPHERALS, INC. BE LIABLE FOR ANY LOSS OF PROFITS, LOSS OF USE OR FACILITIES OR EQUIPMENT OR OTHER INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGE. IN THE UNITED STATES OF AMERICA, SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALTHOUGH THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

In the United States of America, this limited warranty is only valid for Products purchased in the Continental United States, Alaska, and Hawaii.
Outside the United States of America, this limited warranty is only valid for Products purchased in Canada.

Information in this document is subject to change without notice.
For more details, please visit:

**USA:** http://us.aoc.com/support/find_service_center
**ARGENTINA:** http://ar.aoc.com/support/find_service_center
**BOLIVIA:** http://bo.aoc.com/support/find_service_center
**CHILE:** http://cl.aoc.com/support/find_service_center
**COLOMBIA:** http://co.aoc.com/support/find_service_center
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**VENEZUELA:** http://ve.aoc.com/support/find_service_center
**IF COUNTRY NOT LISTED:** http://latin.aoc.com/support/find_service_center